ZACKARY SCALYER

(717) 598-8390 / zes5027@psu.edu

SUMMARY

Seeking employment/internship in data analysis or related field while completing the Master's in Applied Statistics Program at Villanova University. For examples of academic research please refer to my public repository https://github.com/zack0179/ZackaryScalyer.

EDUCATION

The Pennsylvania State University, Berks Campus Expected: May 2018

- Bachelor of Science in Kinesiology, Exercise Science Option
- Cumulative GPA: 3.72

Villanova University Master's in Applied Statistics Accepted: Fall 2018

ACADEMIC AWARDS

The Penn State Berks Excellence in Statistics Award	April 2018
Franco Undergraduate Research Award (\$1,500)	January 2017
Science Peer Tutor Award: Kinesiology	June 2017
Outstanding Science Internship/Co-op Student Award	June 2017
Science Peer Tutor Award: Mathematics	June 2016

ACADEMIC RESEARCH EXPERIENCE

Statistical Program Competencies

SPSS, R, Python, MATLAB, and Minitab

- Couse work in statistics for SPSS and R
 - o STAT 401 Experimental Methods
 - STAT 200 Elementary Statistics
 - KINES 260 Research Skills in Kinesiology
- PSU Learning Center tutor for SPSS and R
- Data cleaning and statistical modeling with R
- Data integration, processing, analyzation, and visualization with Python and MATLAB
- Inferential statistics and data visualization with Mintab and R

Physics Department Independent Studies

August 2017 to Present

August 2016 to Present

Faculty Adviser: Dr. Alexei Prokudin

• Transverse-momentum-dependent Multiplicities of Charged Hadrons

PSU Berks Biomechanics Research Internship

June 2016 to Present

Faculty adviser Dr. Benjamin W. Infantolino

- Optimal Fascicle Length Changes Based On Submaximal Force Or Activation
- Ultrasound imaging, EMG, load cell data collection and data processing

Faculty Adviser: Dr. Allison R. Altman-Singles

• Vicon Nexus II Motion Analysis System, Bertec Force-Plate Gate Analysis

PSU Berks Funded Engineering Research

May to August 2017

Faculty Adviser: Dr. Joseph M. Mahoney

- Design, Calibration and Validation of an Inexpensive Balance Board for Quiet Stance Testing
- Validation of Simple Automated Step Counting Methods During Treadmill Walking

PSU Berks Chemistry Research Internship

June to August 2016

Faculty Adviser: Dr. Katie E. Amaral

• Organic Chemistry Predicting Outcomes

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ACADEMIC TEACHING EXPERIENCE

Peer Academic Leader: The Neurobiology of Motor Control

Spring 2017

Faculty adviser Dr. Benjamin W. Infantolino

Conducted weekly review sessions helping students understand course material

PSU Berks Math, Science, and Statistics tutor

January 2016 to May 2017

• Stat 100 Student Mentor: Presented introduction to probability

National Science Foundation (NSF) Engineering Ahead Program

July 2016, July 2017

Faculty Adviser: Dr. Ryan S. Hassler

• Program assistant, student mentor and math tutor

STEM Conference Student Instructor

March 2016, March 2017

Faculty Adviser: Dr. Ryan S. Hassler

Real-World Data Analysis Using R

Faculty Adviser: Dr. Benjamin W. Infantolino

Ultrasound and muscle anatomy

PRESENTED RESEARCH

41st American Society of Biomechanics Annual Conference

August 2017

 Poster presentation: Optimal Fascicle Length Changes Based On Submaximal Force Or Activation

18th Annual Undergraduate Research & Creativity Conference

April 2017

• Poster presentation: Organic Chemistry Predicting Outcomes

American Chemical Society (ACS) Middle Atlantic Regional Meeting (MARM)

June 2017

• Poster presentation: Organic Chemistry Predicting Outcomes

Biennial Conference on Chemistry Education (BCCE)

June 2016

 Podium presentation by Dr. Katie E. Amaral: Linear and Generalized Linear Modeling of Organic Chemistry II Grade

MILITARY AWARDS & ACADEMICS

US Marine Corps Certificate of Commendation

July 2010

- Organized, updated, and developed a referencing system for the hazardous materials accumulation point which resulted in 100 percent accountability of all hazmat aboard Camp Gonsalves, Okinawa.
- Wrote nine safety programs which resulted in zero discrepancies on both fire inspections and the Annual Installation Safety Office Inspection of Work and Living quarters.

Corporals Leadership Course

August 2012

• 46 hours in-class instruction. Topics included: public speaking, mentoring, leadership

Marine Corps Martial Art Black Belt Instructor

August 2012

• 158 hours of instructing, certified 39 students

PROFESSIONAL AFFILIATIONS

2015 - Present

- American Society of Biomechanics (ASB)
- National Strength and Conditioning Association (NSCA)
- American College of Sports Medicine (ACSM)